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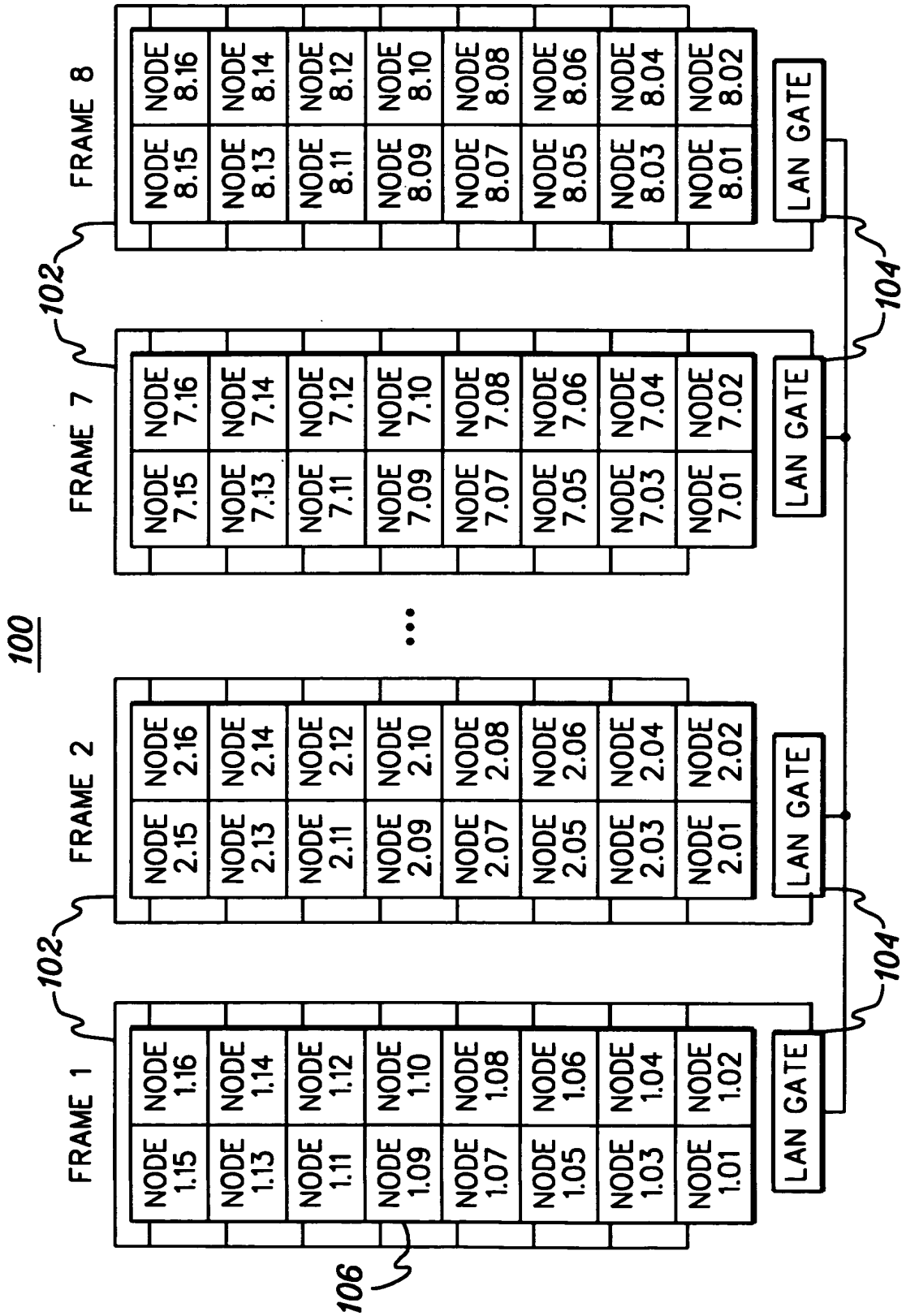

fig. 1

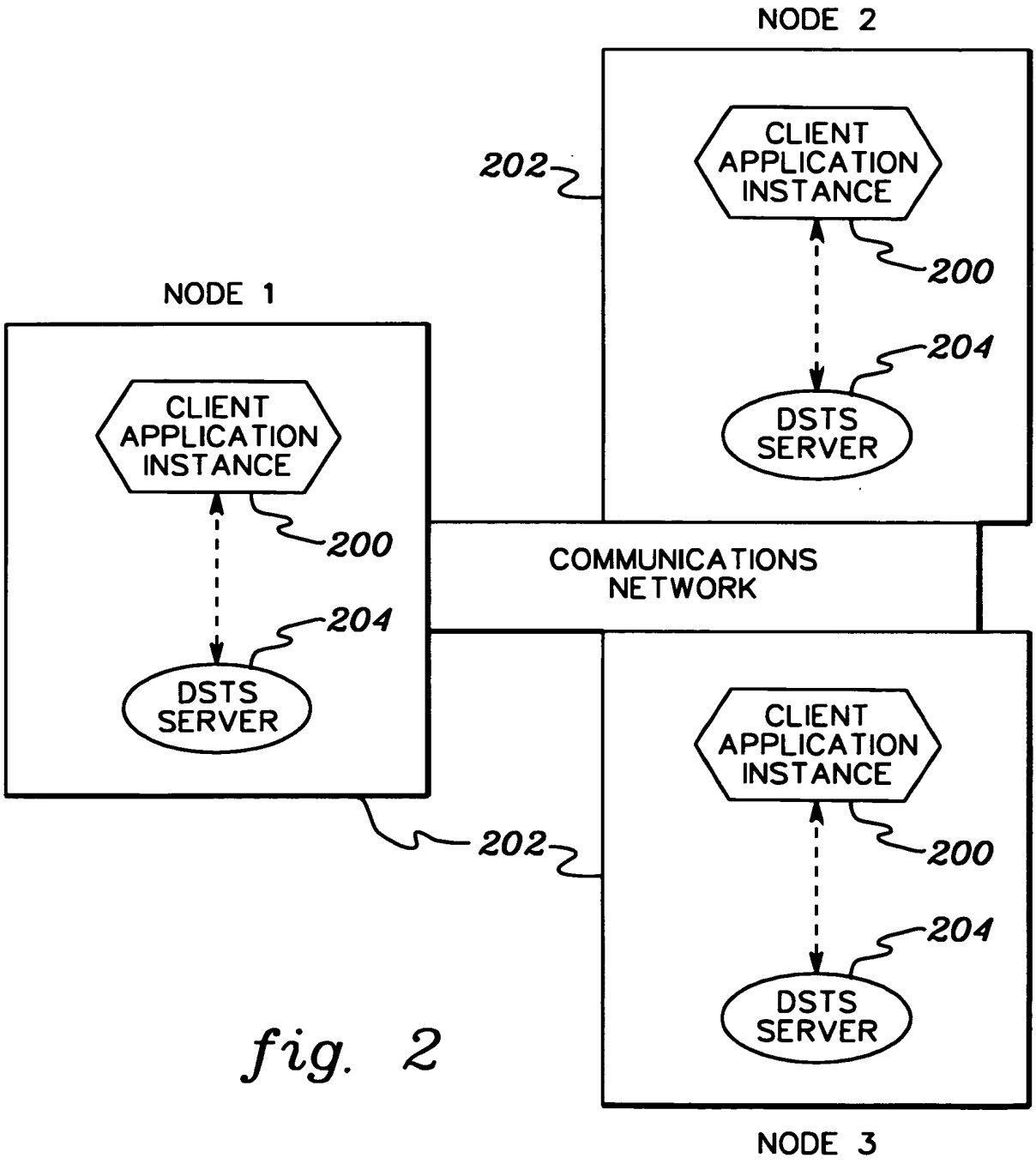

fig. 2

09504250.050400

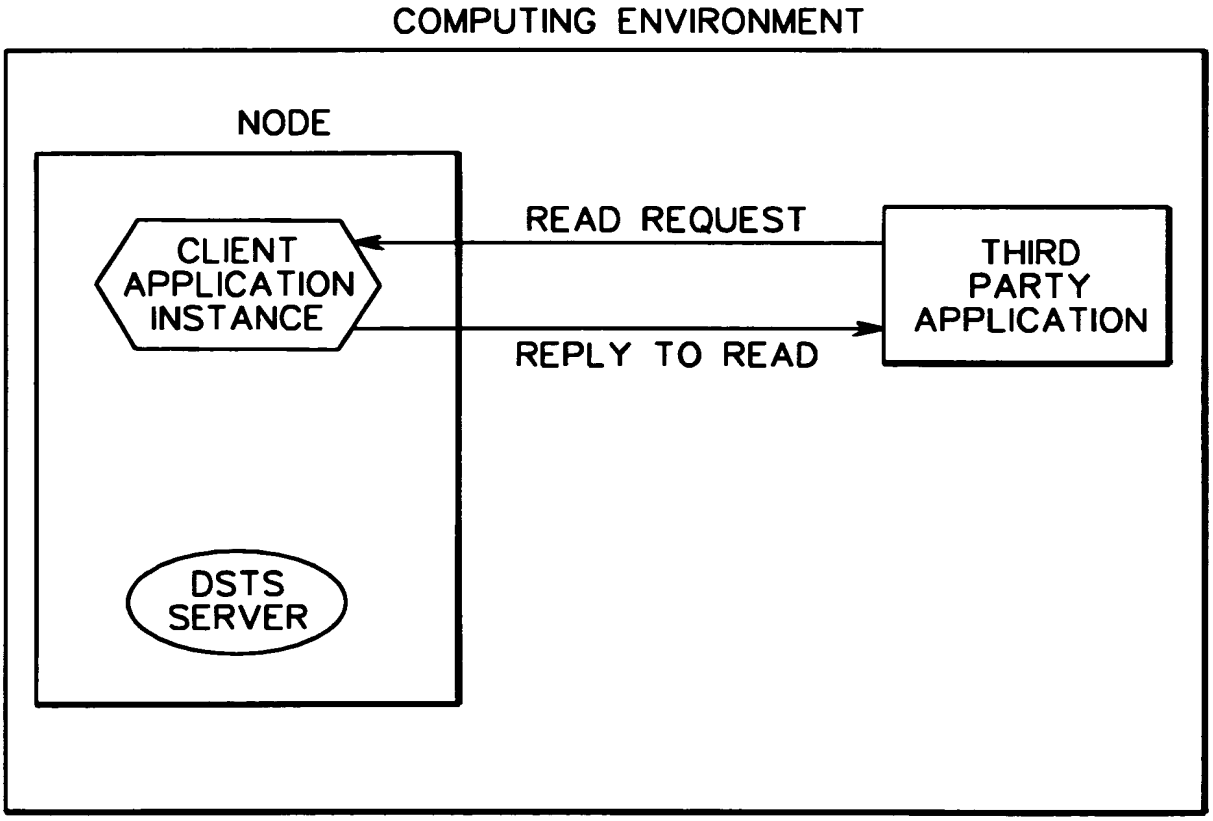

fig. 3

DOCSTOC: 2050436.1

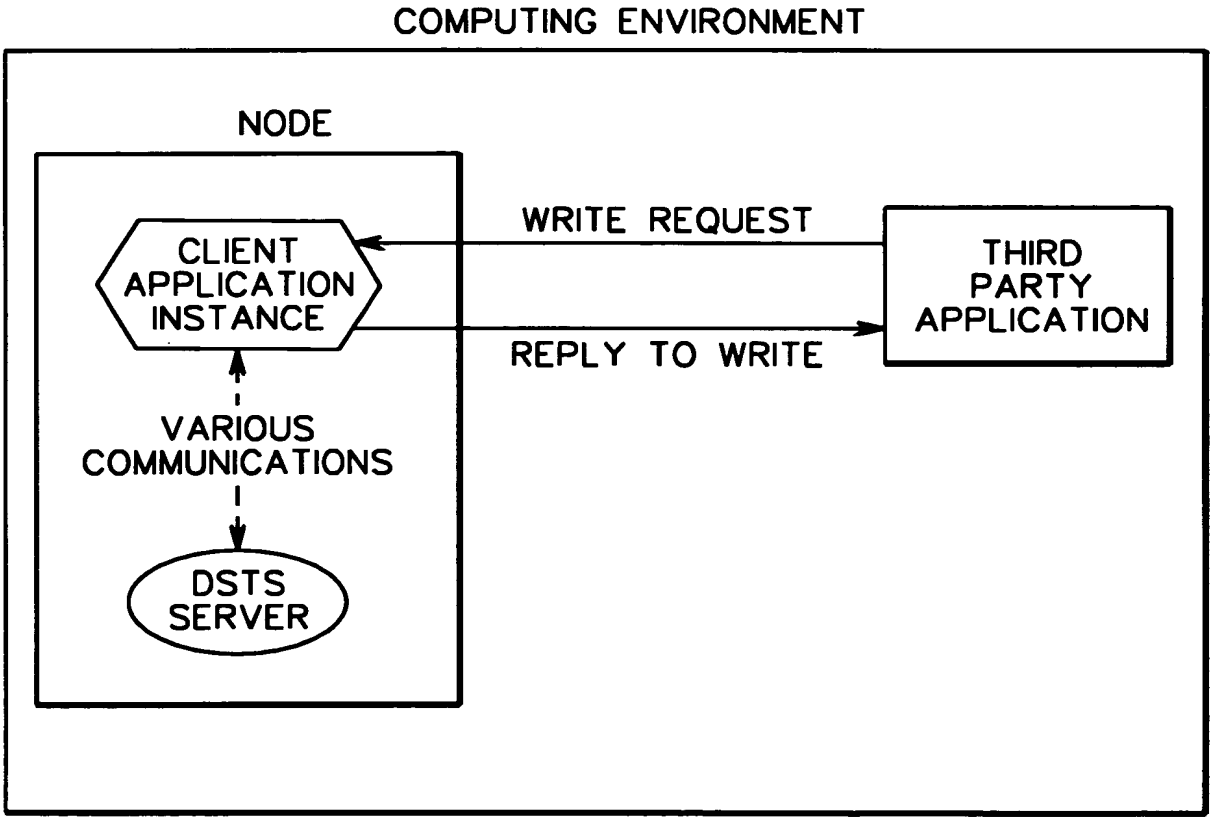

fig. 4

09504503.050904

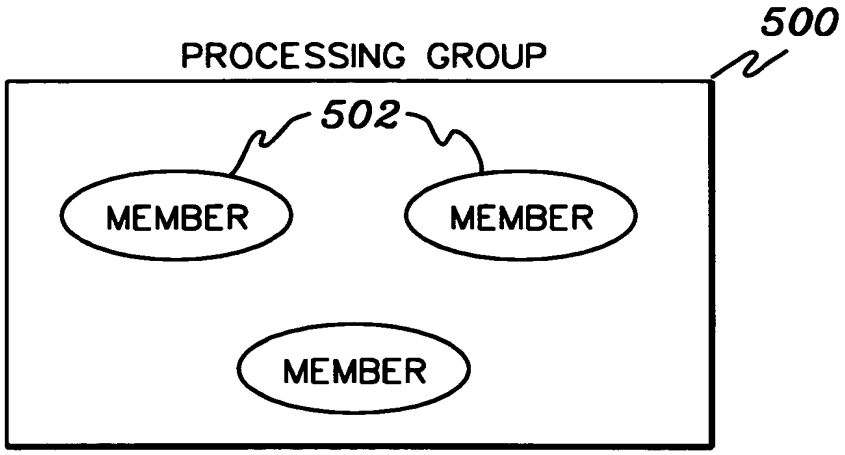

fig. 5

09584556.050700

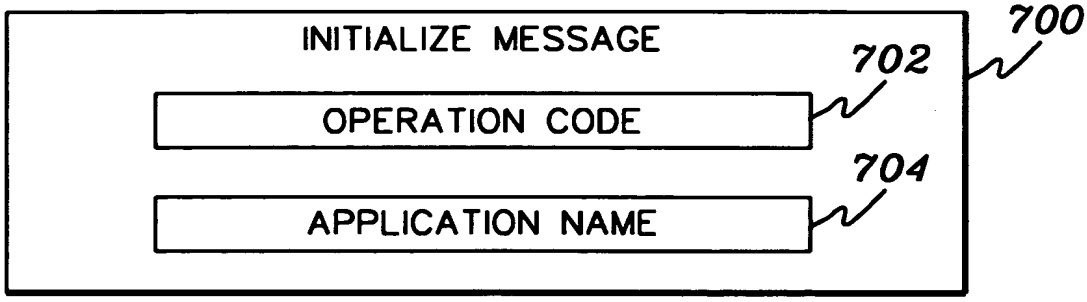

fig. 7

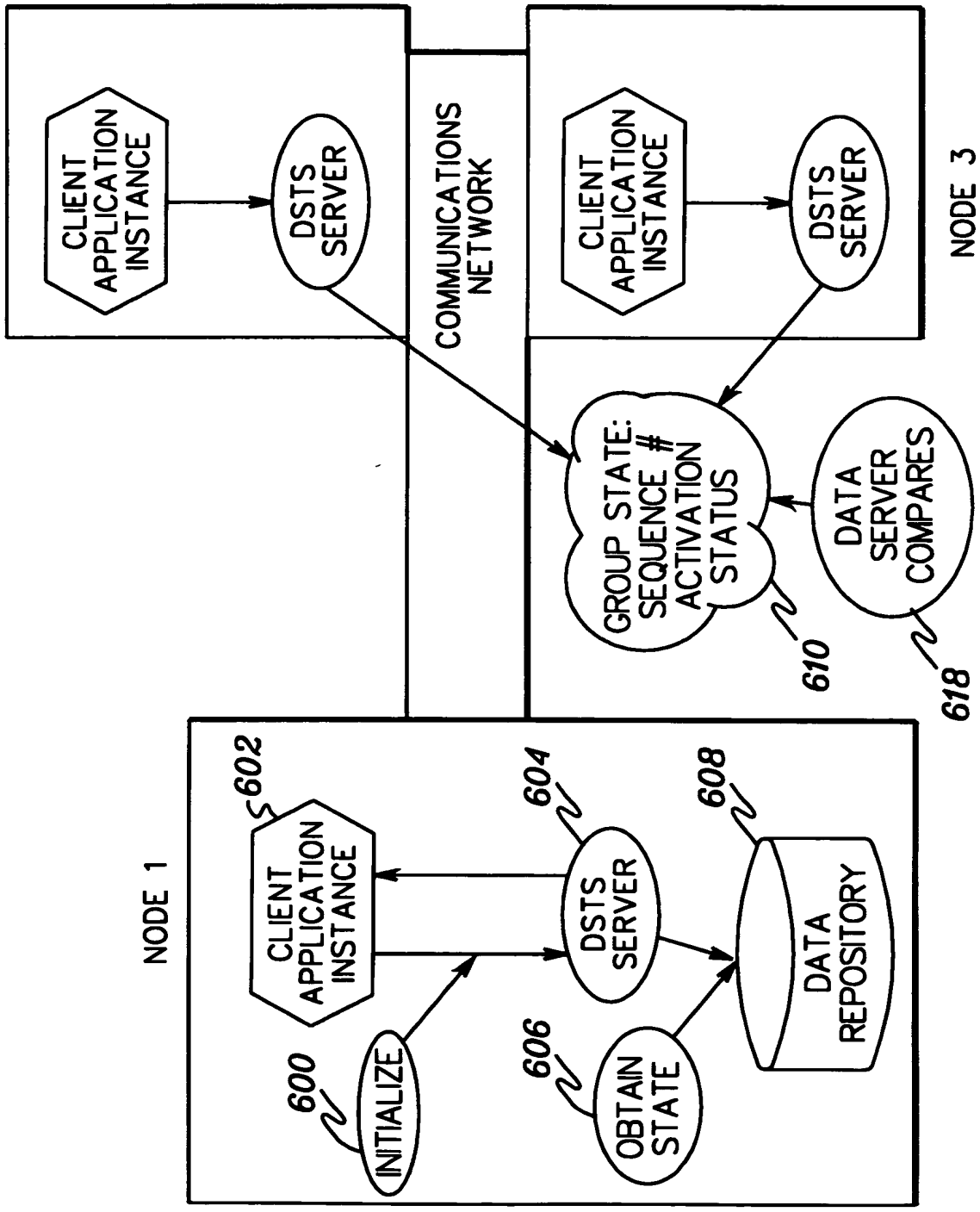
NODE 2
CLIENT APPLICATION INSTANCE
DSTS SERVER
COMMUNICATIONS NETWORK
CLIENT APPLICATION INSTANCE
DSTS SERVER
NODE 3
GROUP STATE: SEQUENCE # ACTIVATION STATUS
610
DATA SERVER COMPARES
618
NODE 1
602
CLIENT APPLICATION INSTANCE
604
DSTS SERVER
608
DATA REPOSITORY
600
INITIALIZE
606
OBTAIN STATE

fig. 6A

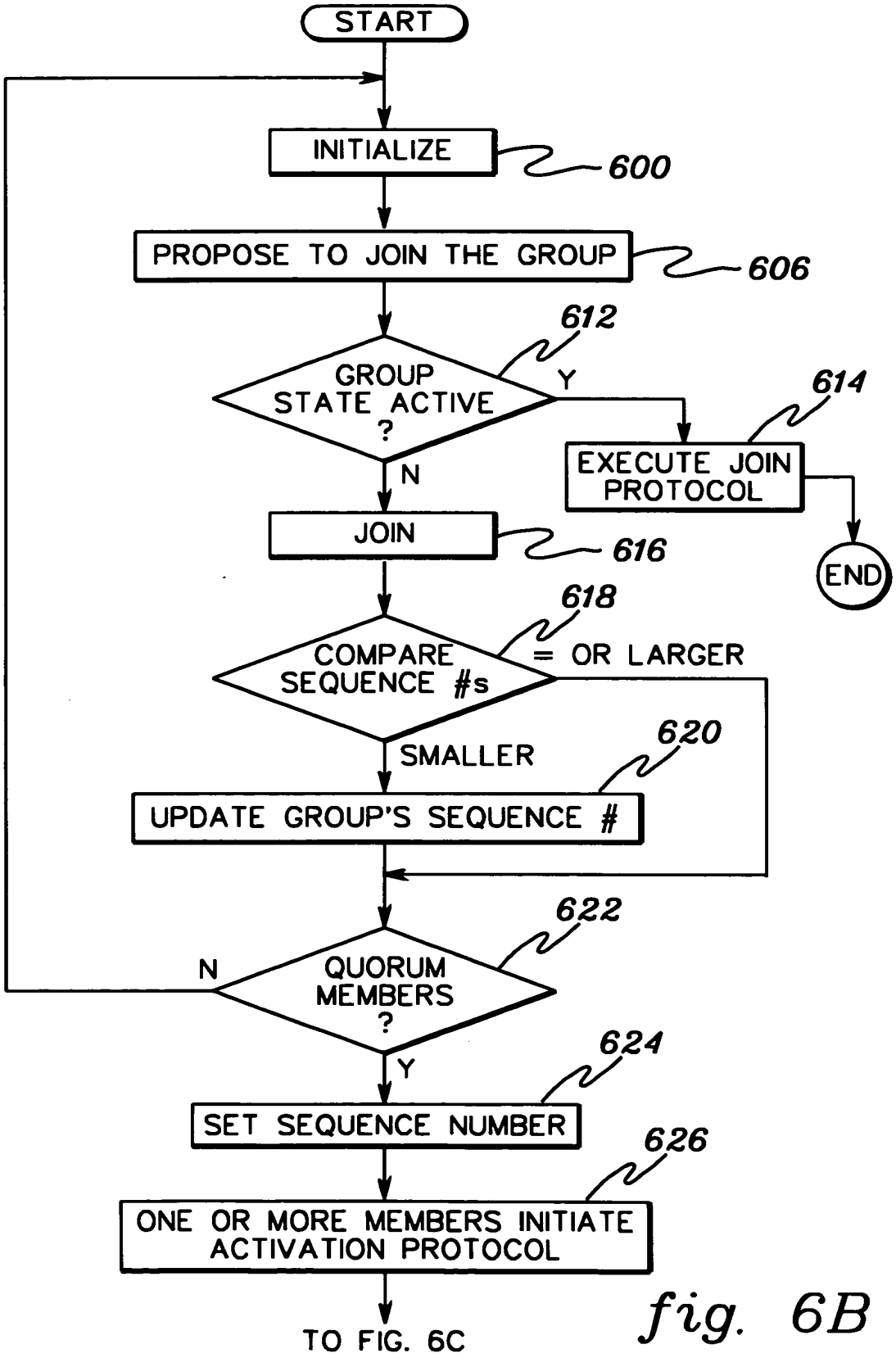

fig. 6B

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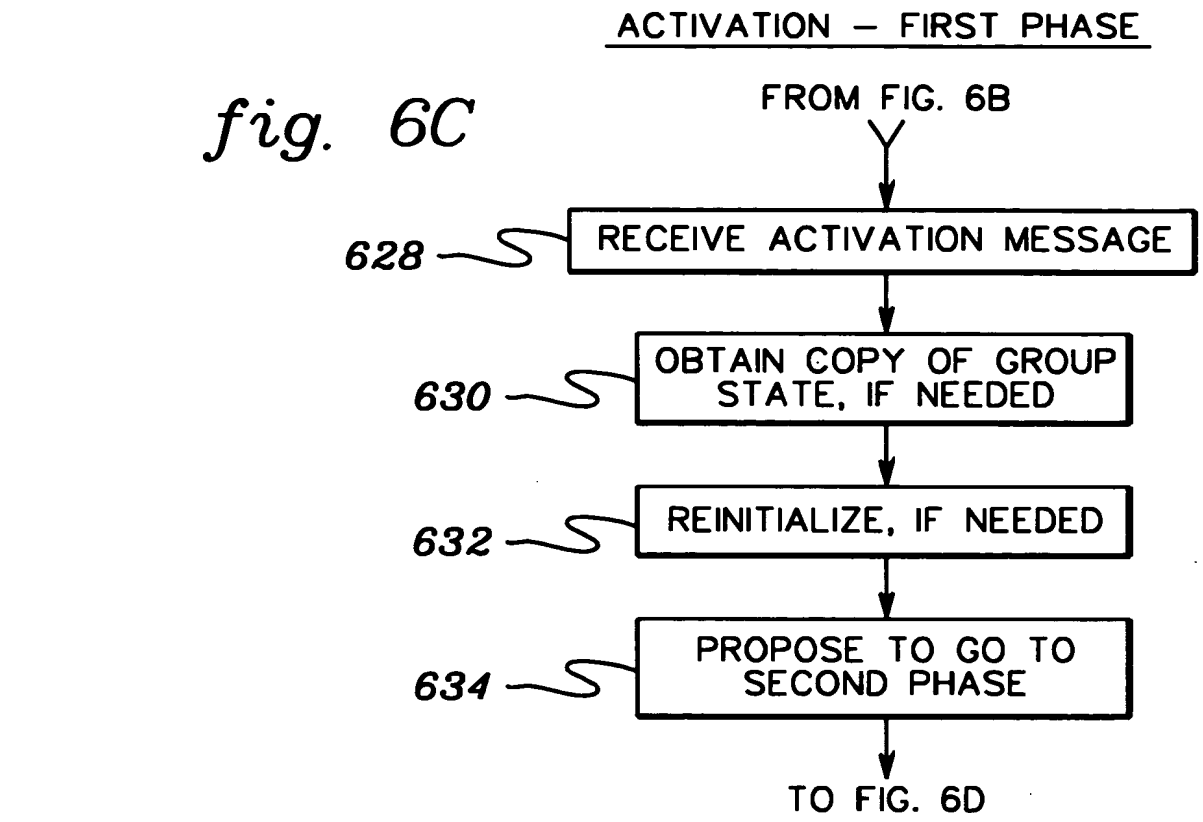

fig. 6C

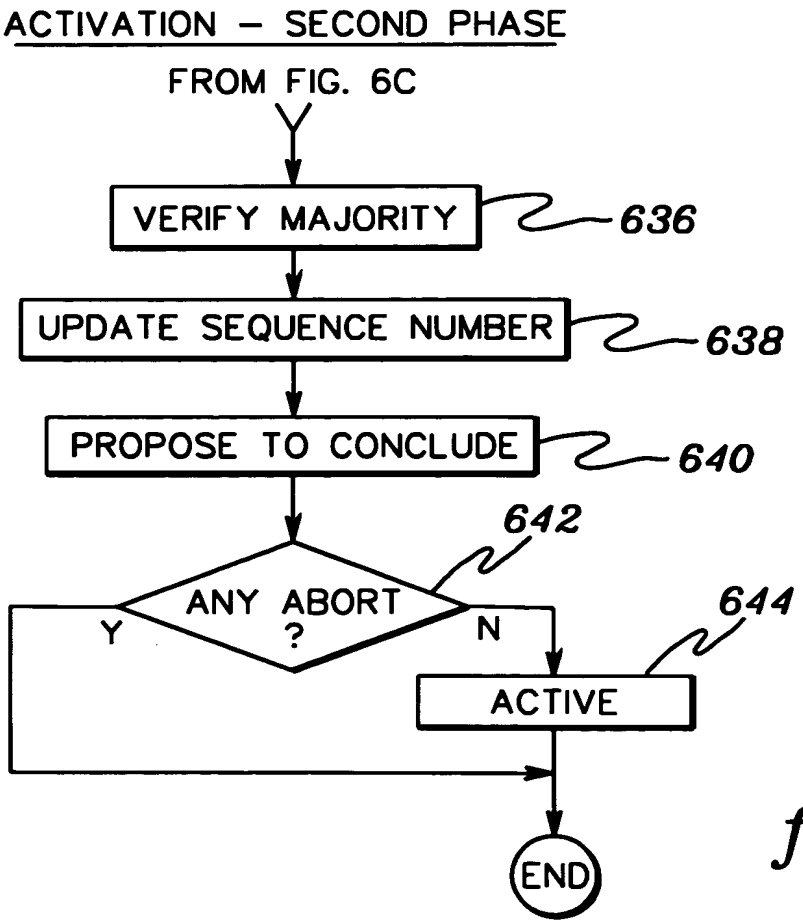

fig. 6D

DOCKET: POU9-2000-0003-US1

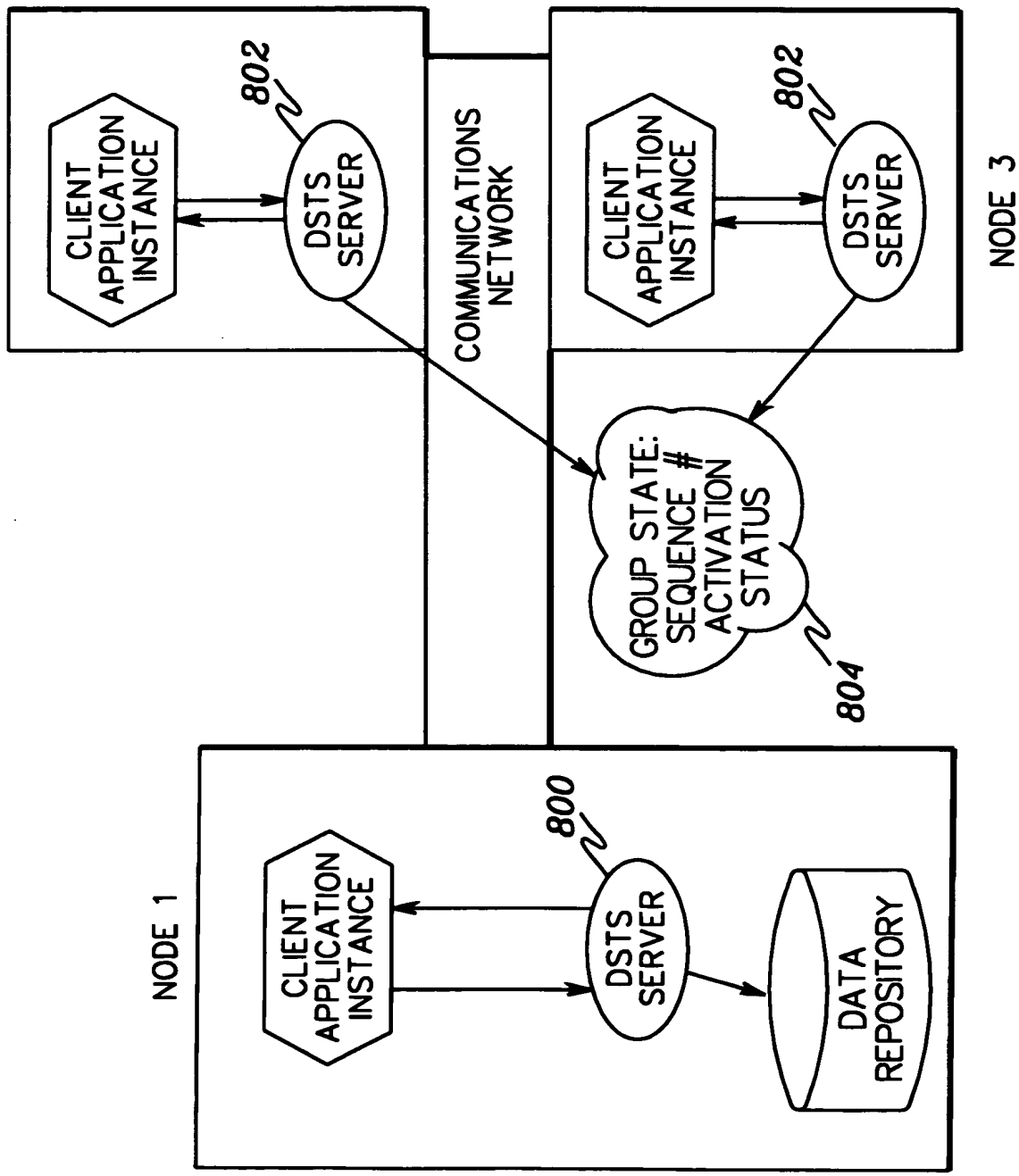
NODE 1
CLIENT APPLICATION INSTANCE
800
DSTS SERVER
DATA REPOSITORY
NODE 2
CLIENT APPLICATION INSTANCE
802
DSTS SERVER
COMMUNICATIONS NETWORK
NODE 3
CLIENT APPLICATION INSTANCE
802
DSTS SERVER
GROUP STATE: SEQUENCE # ACTIVATION STATUS
804

fig. 8

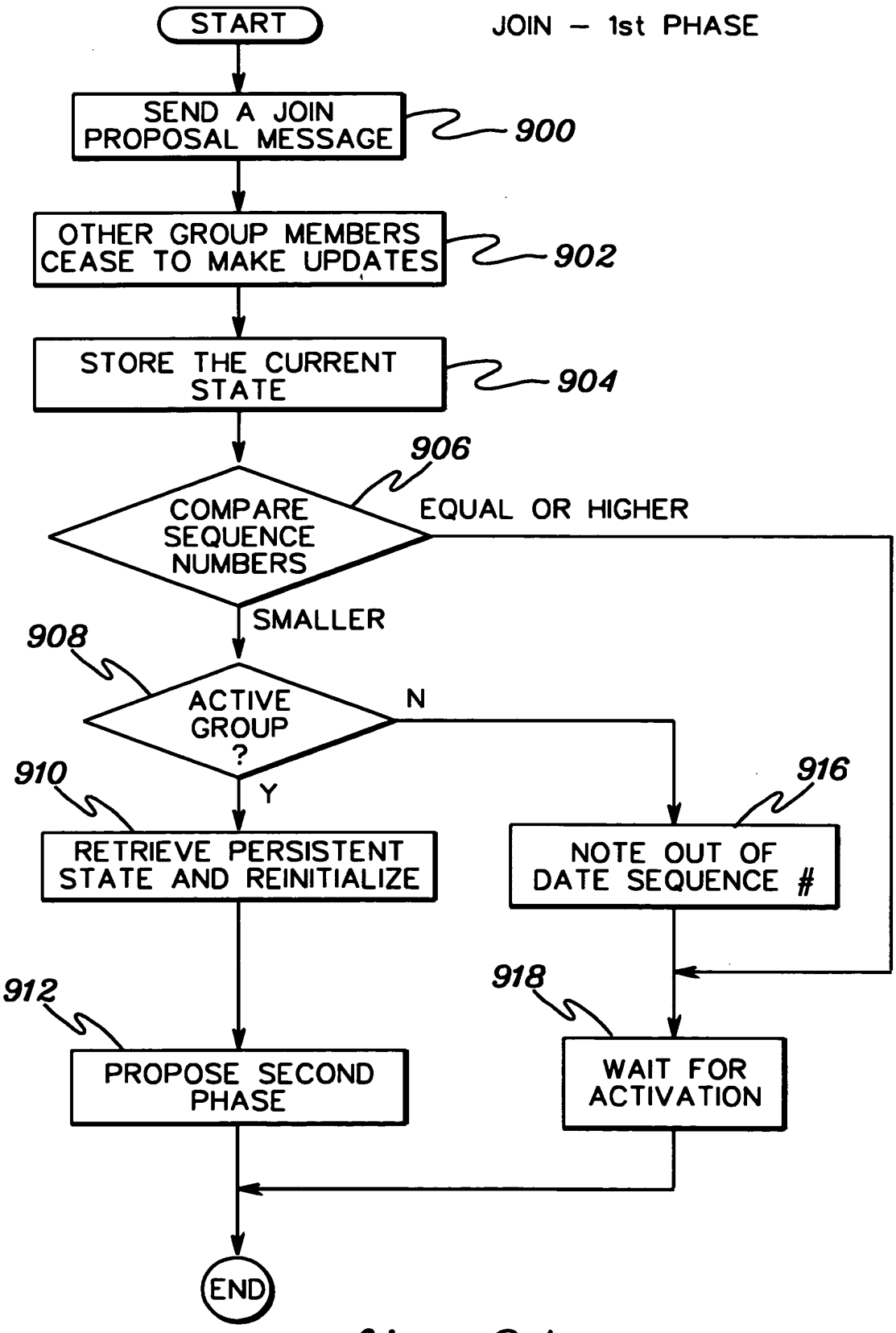
START
JOIN – 1st PHASE
SEND A JOIN PROPOSAL MESSAGE
900
OTHER GROUP MEMBERS CEASE TO MAKE UPDATES
902
STORE THE CURRENT STATE
904
906
COMPARE SEQUENCE NUMBERS
EQUAL OR HIGHER
SMALLER
908
ACTIVE GROUP ?
N
Y
910
RETRIEVE PERSISTENT STATE AND REINITIALIZE
916
NOTE OUT OF DATE SEQUENCE #
912
PROPOSE SECOND PHASE
918
WAIT FOR ACTIVATION
END

fig. 9A

JOIN – 2nd PHASE

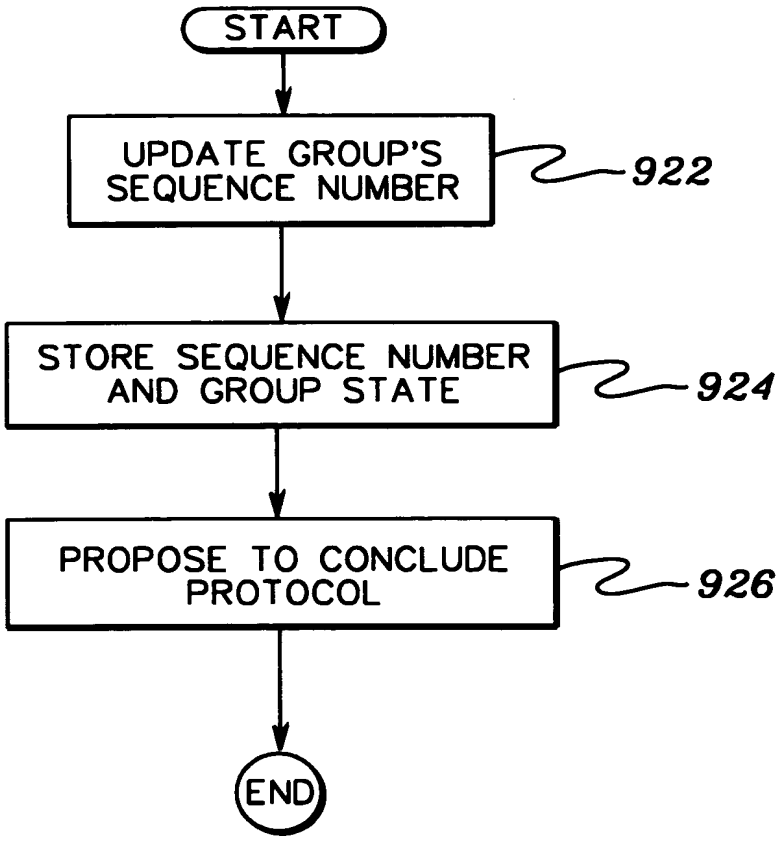

fig. 9B

09584250 - 053100

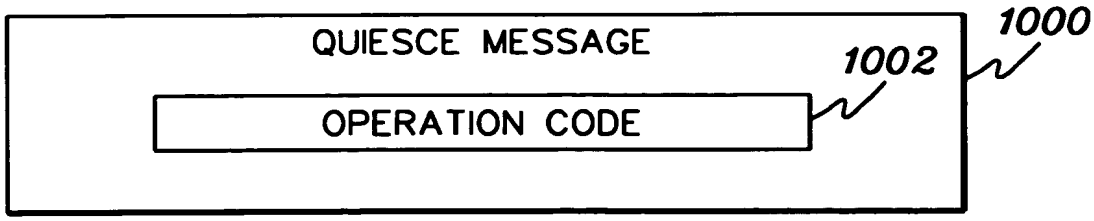

fig. 10

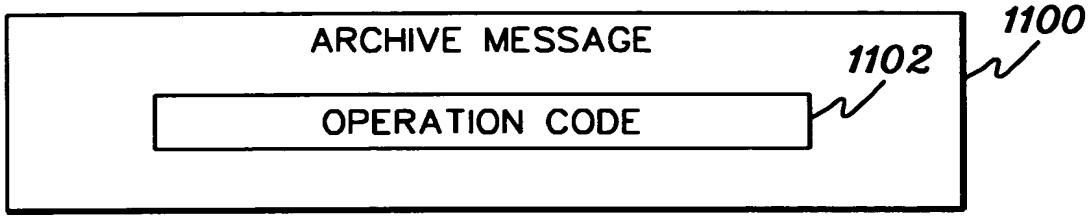

fig. 11

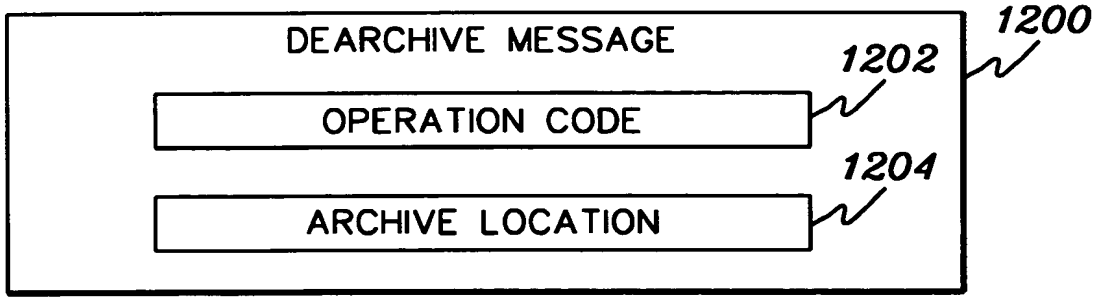

fig. 12

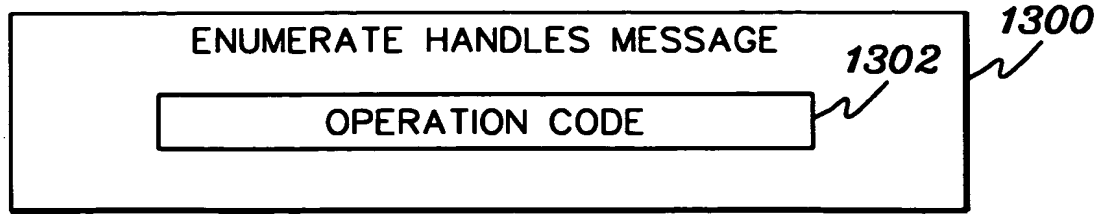

fig. 13

Docket No. POU9-2000-0003-US1

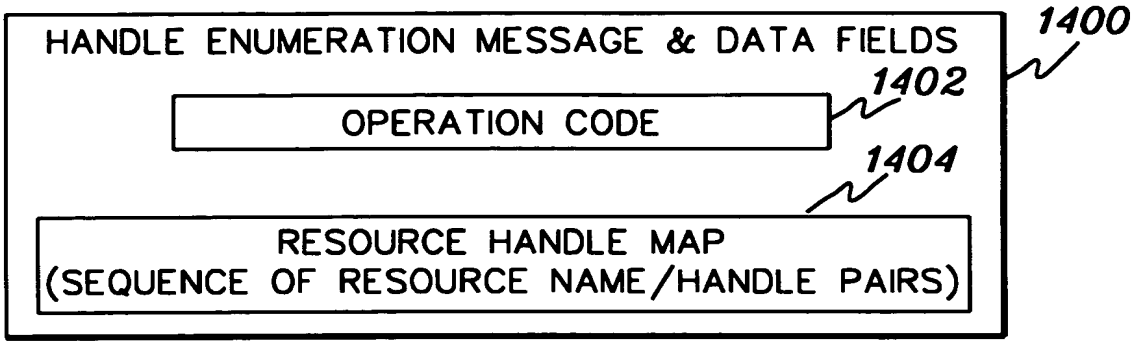

fig. 14

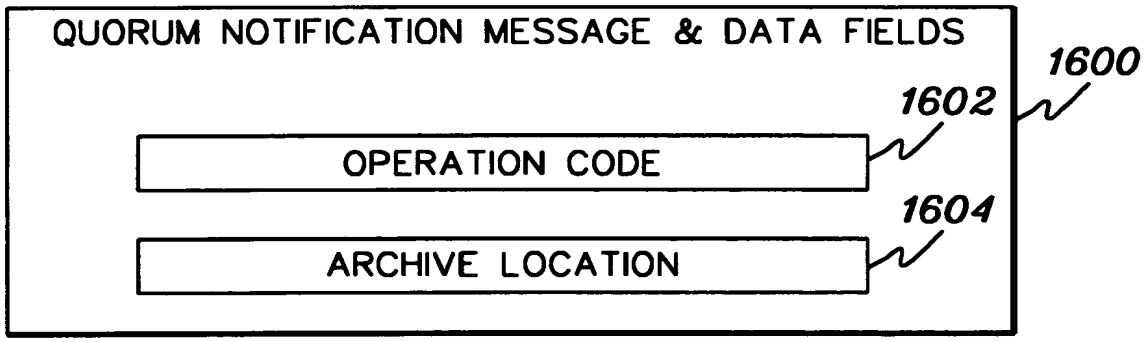

fig. 16

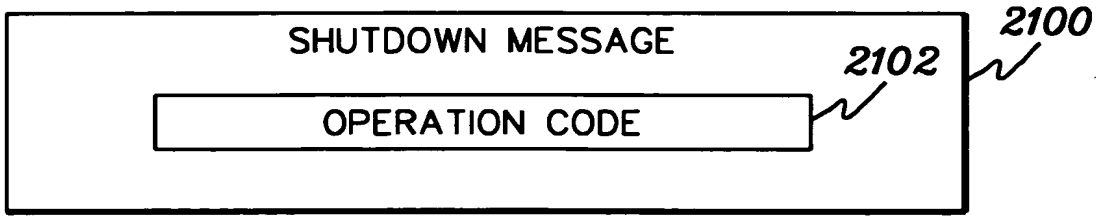

fig. 21

09509425.050400

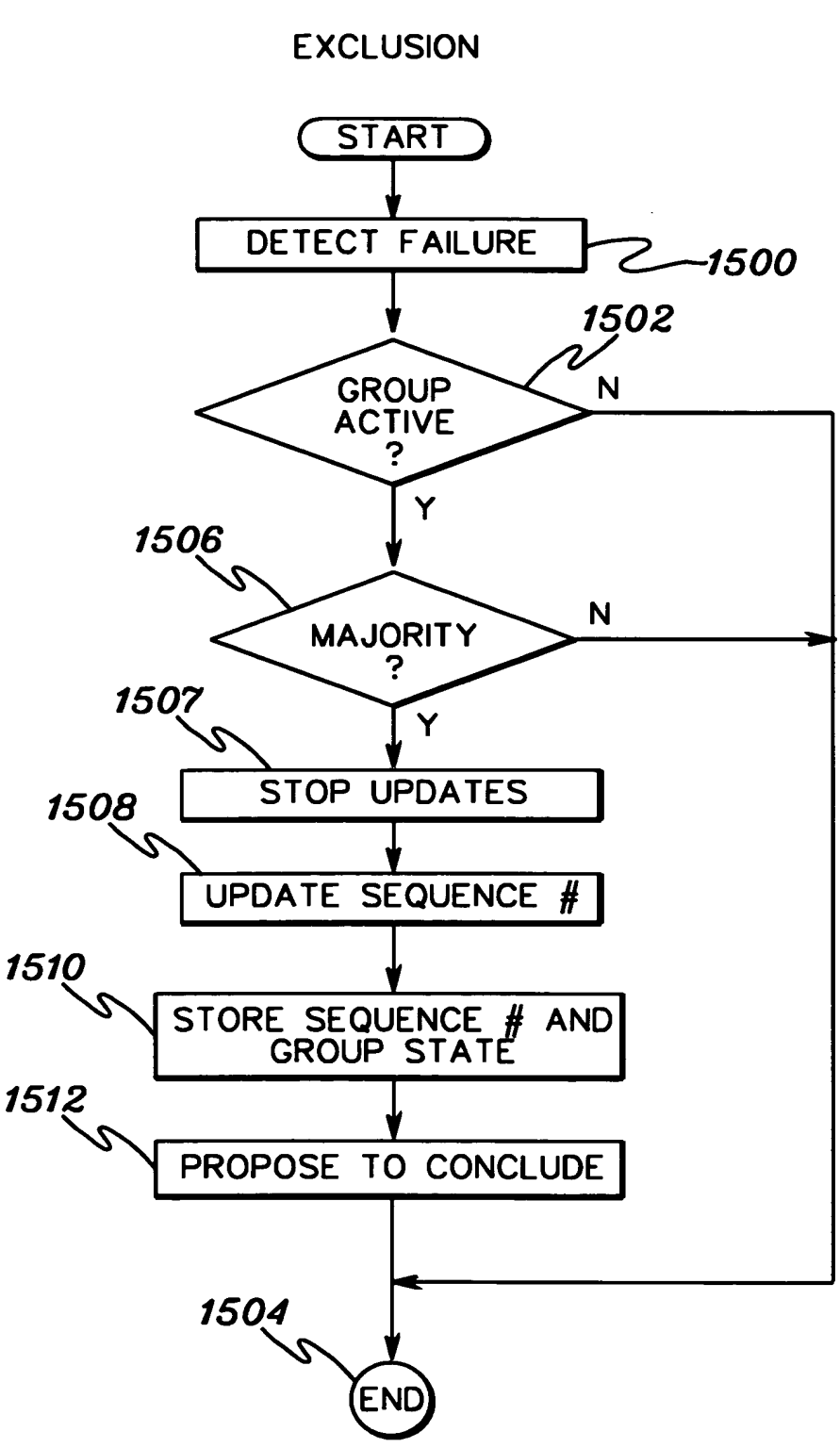
EXCLUSION
START
DETECT FAILURE
1500
1502
GROUP ACTIVE ?
N
Y
1506
MAJORITY ?
N
Y
1507
STOP UPDATES
1508
UPDATE SEQUENCE #
1510
STORE SEQUENCE # AND GROUP STATE
1512
PROPOSE TO CONCLUDE
1504
END

fig. 15

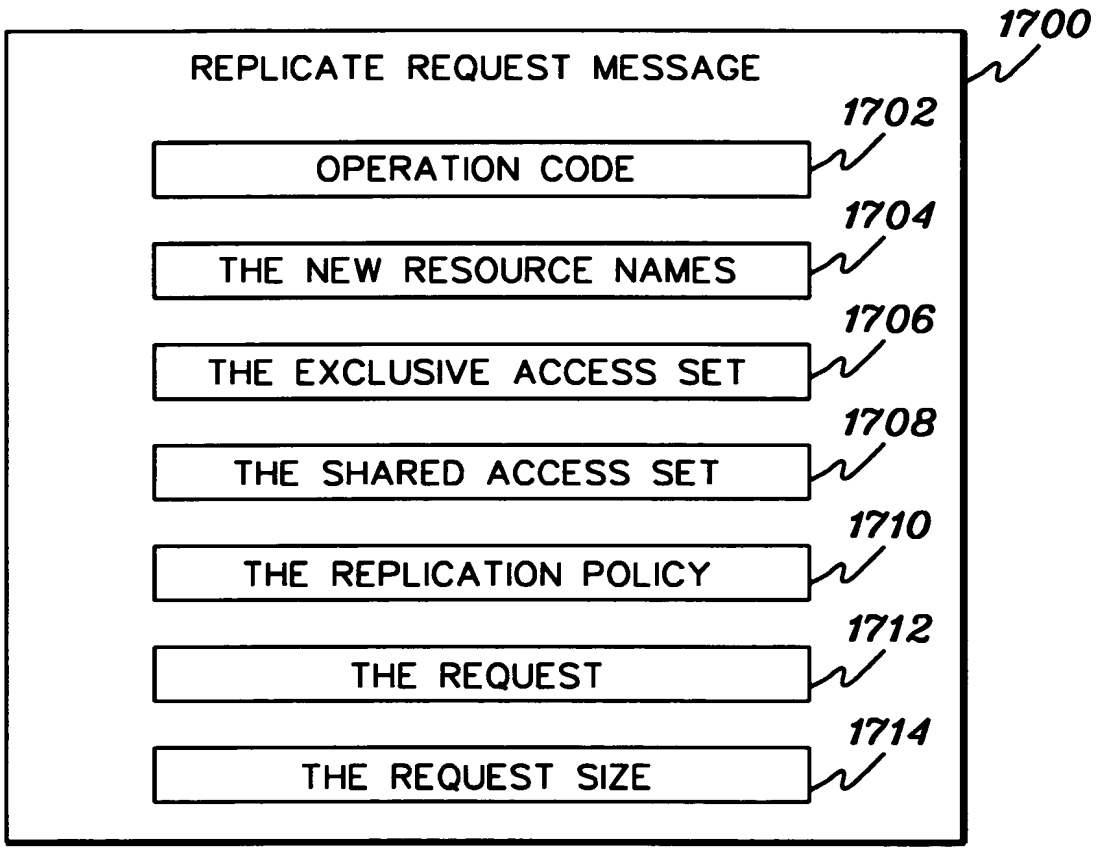

fig. 17

Docket: POU9-2000-0003-US1

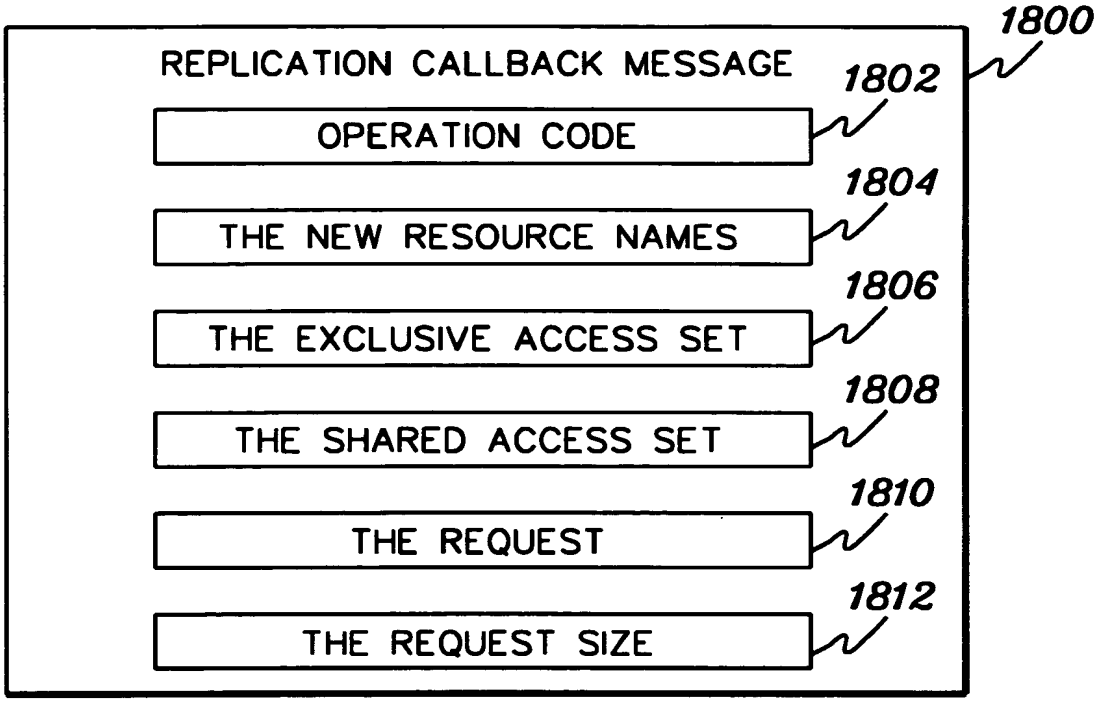

fig. 18

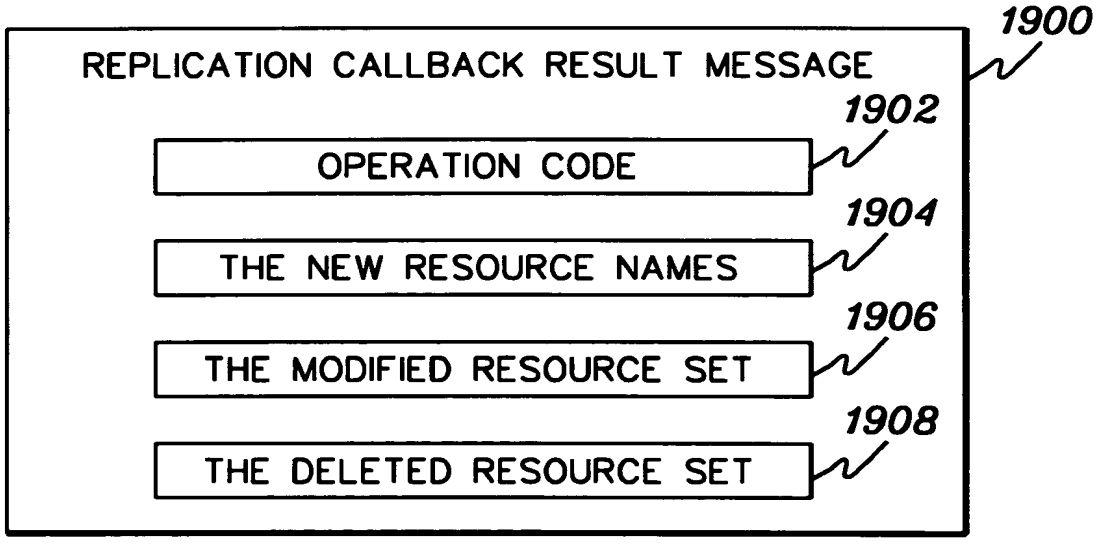

fig. 19

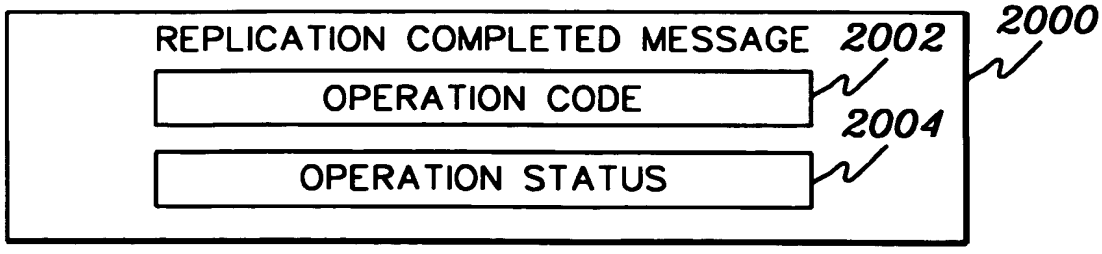

fig. 20

US9-2000-053400

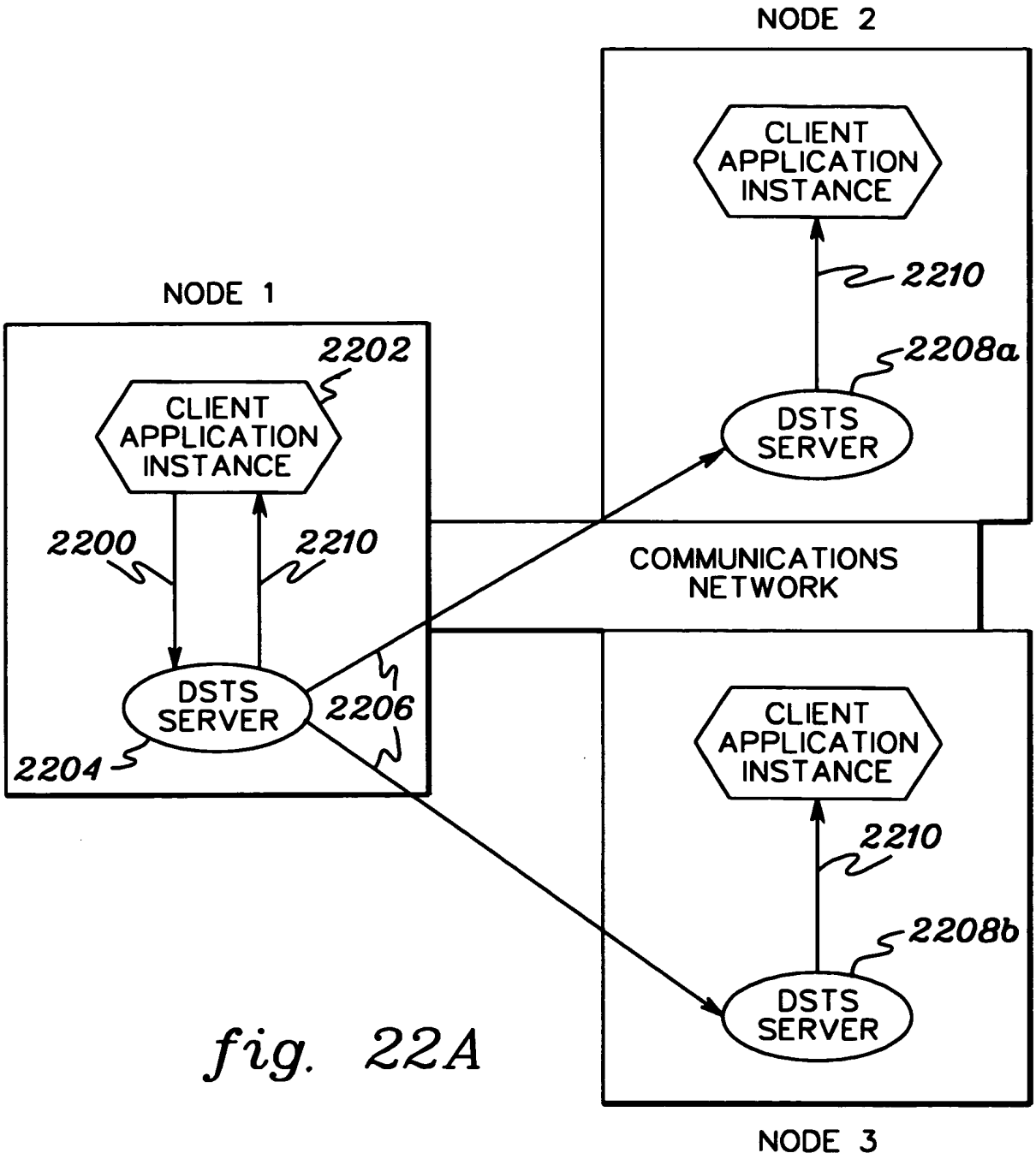

fig. 22A

DOCKET: POU9-2000-0003-US1

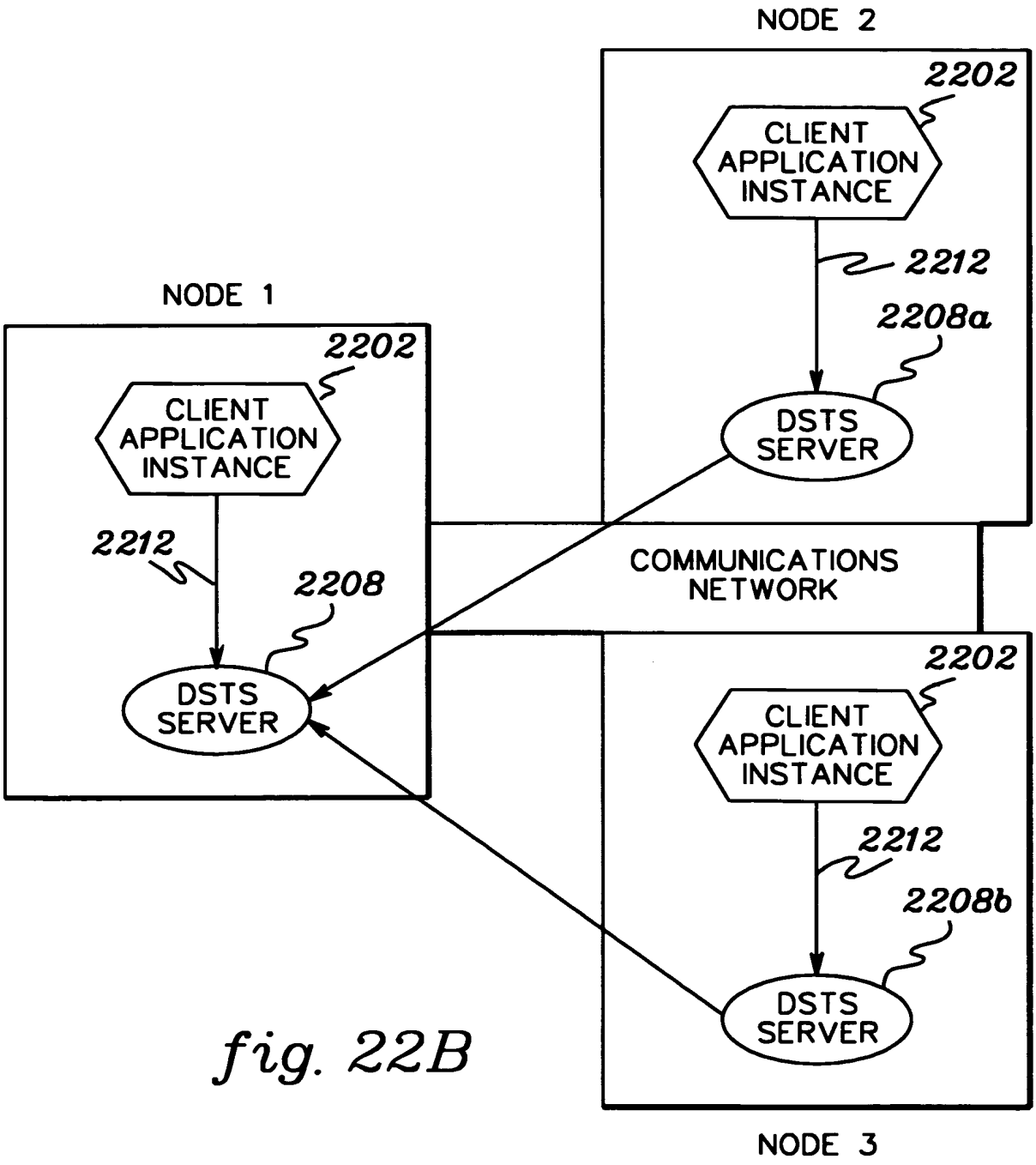
NODE 2
2202
CLIENT APPLICATION INSTANCE
2212
2208a
DSTS SERVER
NODE 1
2202
CLIENT APPLICATION INSTANCE
2212
2208
DSTS SERVER
COMMUNICATIONS NETWORK
2202
CLIENT APPLICATION INSTANCE
2212
2208b
DSTS SERVER
NODE 3

fig. 22B

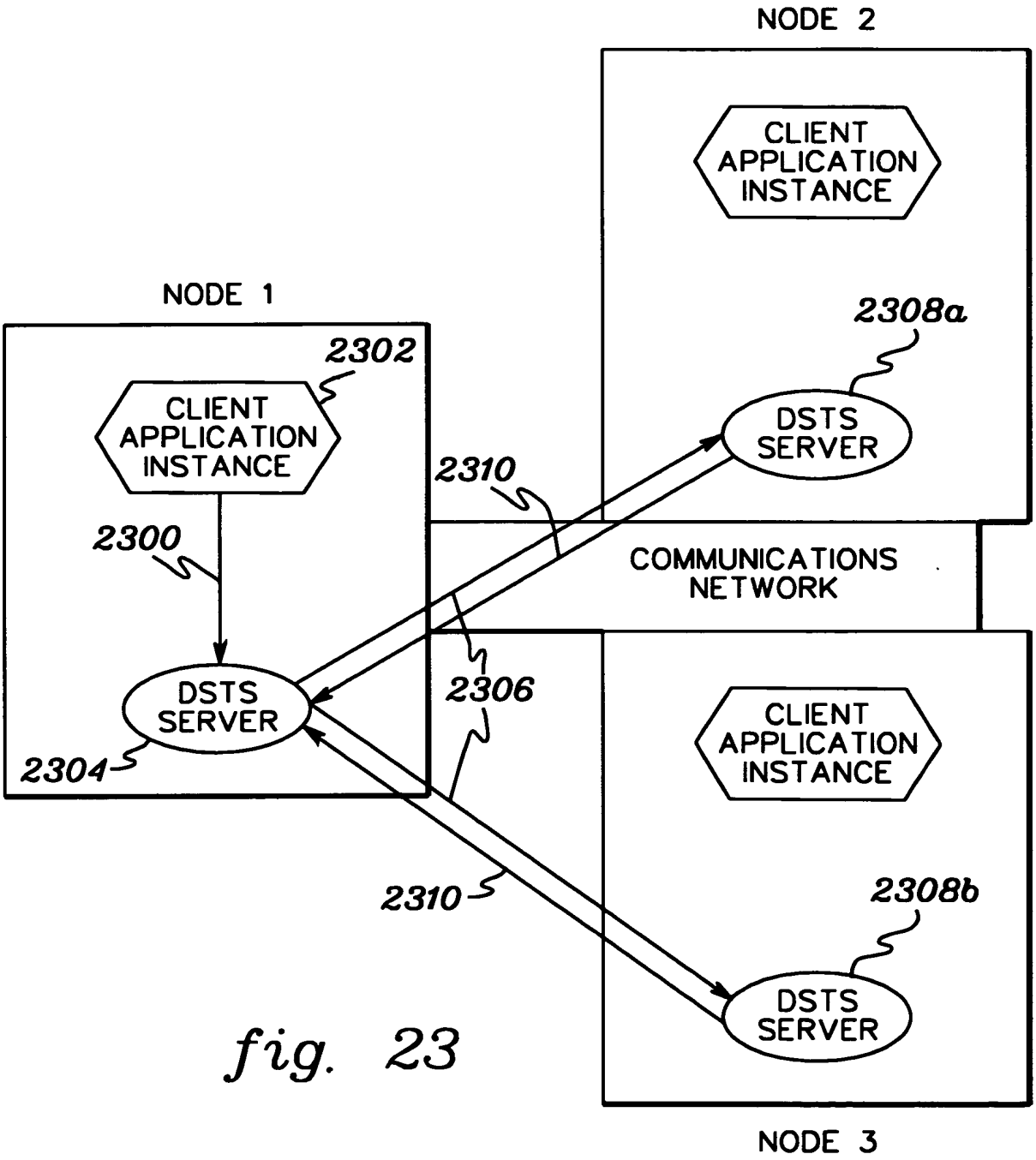

fig. 23

Docket: 9-2000-0003-US1

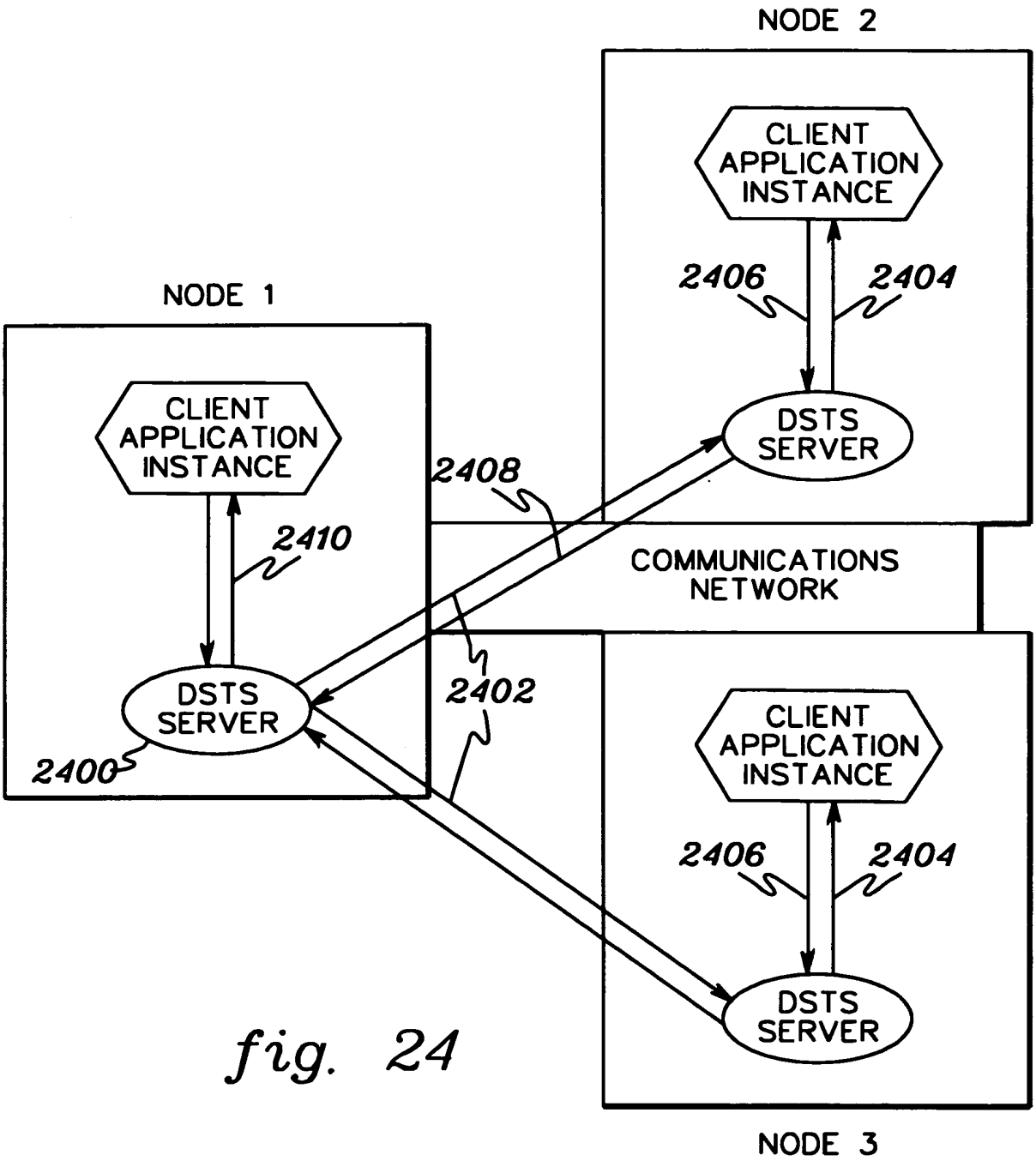

fig. 24

09543400 - 050425

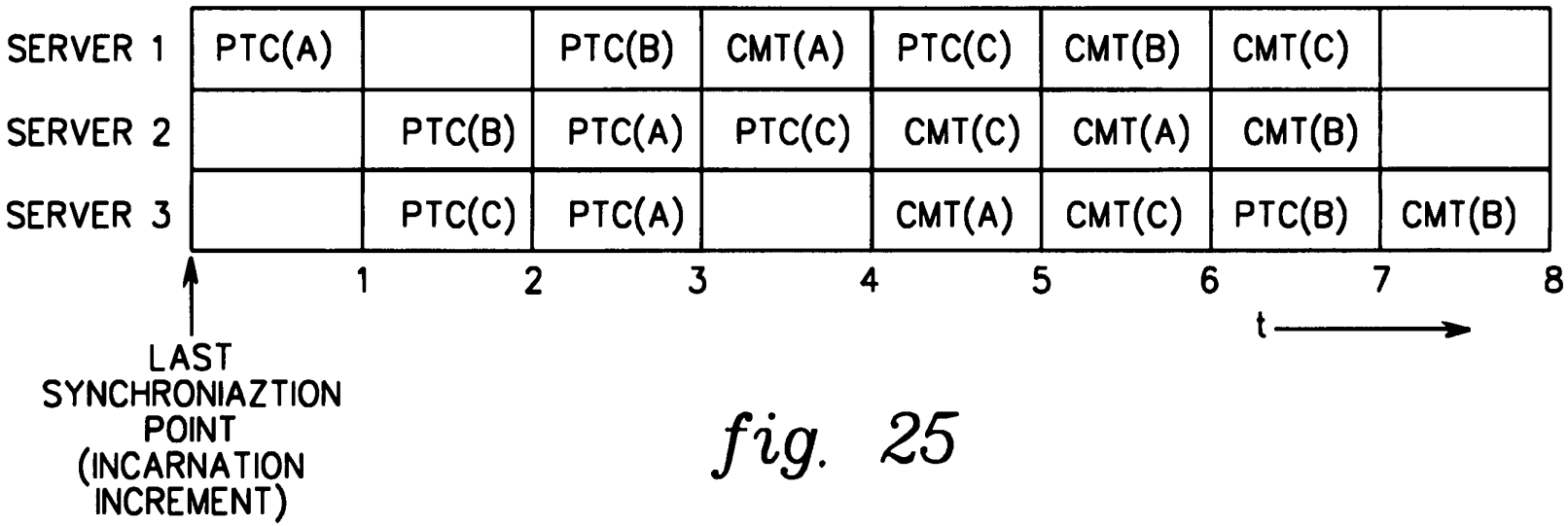
SERVER 1
SERVER 2
SERVER 3
PTC(A)
PTC(B)
CMT(A)
PTC(C)
CMT(B)
CMT(C)
PTC(B)
PTC(A)
PTC(C)
CMT(C)
CMT(A)
CMT(B)
PTC(C)
PTC(A)
CMT(A)
CMT(C)
PTC(B)
CMT(B)
1
2
3
4
5
6
7
8
t
LAST SYNCHRONIAZTION POINT (INCARNATION INCREMENT)

fig. 25

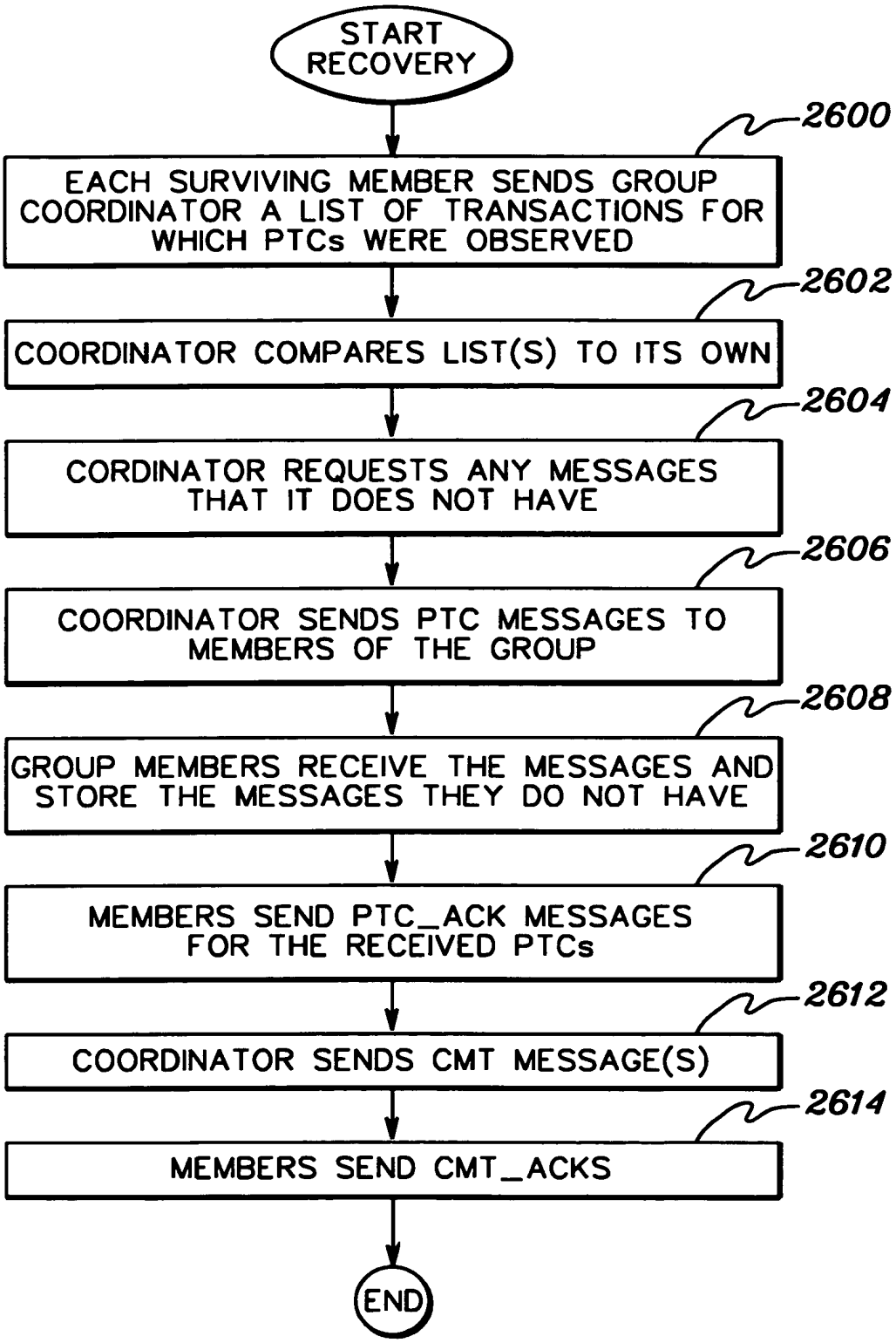

fig. 26

Docket: POU920000003US1